## CLAIMS

- An improved method for cancer therapy, comprising:
   administering the combination of a cytokine-expressing cellular vaccine and at
   least one additional cancer therapeutic agent selected from the group consisting of an
   anti-CTLA4 antibody, an anti-4-1BB antibody, interferon-alpha, docetaxel, paclitaxel, a
   COX-2 inhibitor, an anti- CD40 antibody or CD40 ligand, an anti-OX40 antibody or OX 40 ligand and a heat shock protein (HSP), to a subject with cancer, wherein
   administration of the combination to the subject results in enhanced therapeutic
   efficacy relative to administration of the cytokine-expressing cellular vaccine or the
   at least one additional cancer therapeutic agent alone.
  - 2. The method of claim 1, wherein the cytokine-expressing cellular vaccine expresses GM-CSF.
  - 3. The method of claim 2, wherein the cells of said cytokine-expressing cellular vaccine are autologous to the subject.
- 4. The method of claim 2, wherein the cells of said cytokine-expressing cellular vaccine are allogeneic to the subject.
  - 5. The method of claim 2, wherein the cells of said cytokine-expressing cellular vaccine cells are bystander cells.
- 25 6. The method of claim 2, wherein the cells of the cytokine-expressing cellular vaccine are rendered proliferation-incompetent by irradiation.
  - 7. The method of claim 2, wherein the mammal is a human.
- 30 8. The method of claim 2, wherein the cancer is a prostate cancer.

- 9. The method of claim 2, wherein the cancer is a non-small cell lung carcinoma.
- 10. The method of claim 4, wherein the allogeneic cells are a tumor cell line selected from the group consisting of a prostate tumor line, a non-small cell lung carcinoma line and a pancreatic cancer line.
- 11. The method of claim 2, wherein said at least one additional cancer therapeutic agent includes an anti-CTLA4 antibody.

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- 12. The method of claim 2, wherein said at least one additional cancer therapeutic includes an anti-4-1BB antibody.
- 13. The method of claim 2, wherein said at least one additional cancer therapeutic agent includes interferon-alpha.
  - 14. The method of claim 2, wherein said at least one additional cancer therapeutic agent includes docetaxel or paclitaxel.
- 20 15. The method of claim 14, wherein said at least one additional cancer therapeutic agent includes docetaxel.
  - 16. The method of claim 2, wherein said at least one additional cancer therapeutic agent includes a COX-2 inhibitor.

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- 17. The method of claim 16, wherein said COX-2 inhibitor is Celecoxib.
- 18. The method of claim 2, wherein said at least one additional cancer therapeutic agent includes an anti-CD40 antibody or CD40 liquid.

- 19. The method of claim 2, wherein said at least one additional cancer therapeutic agent is expressed by a cell and the cell is an autologous, allogeneic or a bystander cell.
- 20. The method of claim 19, wherein the autologous, allogeneic or a bystander cell is rendered proliferation-incompetent by irradiation.
  - 21. The method of claim 20, wherein the autologous, allogeneic or a bystander cell expresses interferon-alpha.
- 10 22. The method of claim 20, wherein the autologous, allogeneic or a bystander cell expresses CD40 ligand.
  - 23. The method of claim 2, wherein said cytokine-expressing cellular vaccine is administered subcutaneously.
  - 24. The method of claim 2, wherein said cytokine-expressing cellular vaccine is administered intratumorally.

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- 25. The method of claim 16, wherein said COX-2 inhibitor is administered before the GM-CSF-expressing cellular vaccine.
  - 26. The method of claim 18, wherein said anti-CD40 antibody is administered after the GM-CSF-expressing cellular vaccine.
- 25 27. The method of claim 18, wherein said CD40 ligand is administered after the GM-CSF-expressing cellular vaccine.
  - 28. An improved composition for cancer therapy, comprising:

    a GM-CSF expressing cellular vaccine and at least one additional cancer
    therapeutic agent selected from the group consisting of an anti-CTLA4 antibody, an

anti-4-1BB antibody, interferon-alpha, docetaxel, Celecoxib, an anti- CD40 antibody and CD40 ligand for administration to a subject with cancer, wherein administration of the combination results in enhanced therapeutic efficacy relative to administration of the GM-CSF expressing cellular vaccine or the at least one additional cancer therapeutic agent alone.

- 29. The composition of claim 28, wherein the cells of said cytokine-expressing cellular vaccine are autologous to the subject.
- 10 30. The composition of claim 28, wherein the cells of said cytokine-expressing cellular vaccine are allogeneic to the subject.

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- 31. The composition of claim 28, wherein the cells of said cytokine-expressing cellular vaccine cells are bystander cells.
- 32. The composition of claim 28, wherein the cells of said cytokine-expressing cellular vaccine are rendered proliferation-incompetent by irradiation.
- 33. The composition of claim 30, wherein said allogeneic cells are a tumor cell line selected from the group consisting of a prostate tumor line, a non-small cell lung carcinoma line and a pancreatic cancer line.
  - 34. The composition of claim 28, wherein said at least one additional cancer therapeutic agent is an anti-CTLA4 antibody.
  - 35. The composition of claim 28, wherein said at least one additional cancer therapeutic is an anti-4-1BB antibody.
- 36. The composition of claim 28, wherein said at least one additional cancertherapeutic agent is interferon-alpha.

- 37. The composition of claim 28, wherein said at least one additional cancer therapeutic agent is docetaxel.
- 5 38. The composition of claim 28, wherein said at least one additional cancer therapeutic agent is Celecoxib.
  - 39. The composition of claim 28, wherein said at least one additional cancer therapeutic agent is an anti-CD40 antibody or CD40 ligand.

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- 40. The composition of claim 28, wherein said at least one additional cancer therapeutic agent is expressed by a cell and the cell is autologous, allogeneic or a bystander cell.
- 15 41. The composition of claim 40, wherein the autologous, allogeneic or bystander cell is rendered proliferation-incompetent by irradiation.
  - 42. The composition of claim 41, wherein the autologous, allogeneic or a bystander cell expresses interferon-alpha.

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43. The composition of claim 41, wherein the he autologous, allogeneic or a bystander cell expresses CD40 ligand.